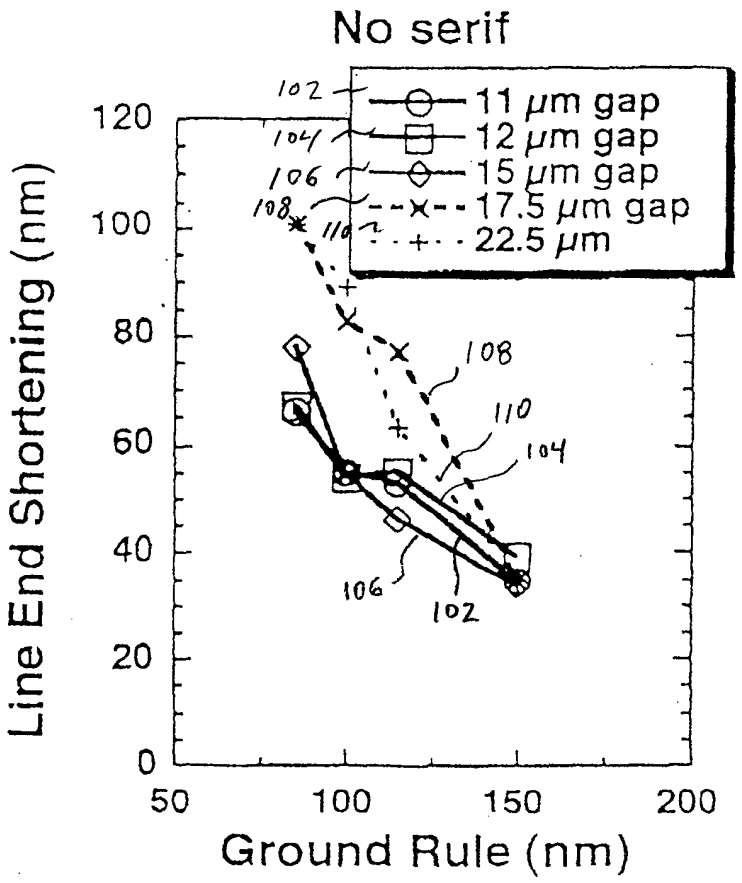
No serif
11 μm gap
12 μm gap
15 μm gap
17.5 μm gap
22.5 μm
102
104
106
108
110
Line End Shortening (nm)
120
100
80
60
40
20
0
50
100
150
200
Ground Rule (nm)

FIG. 1

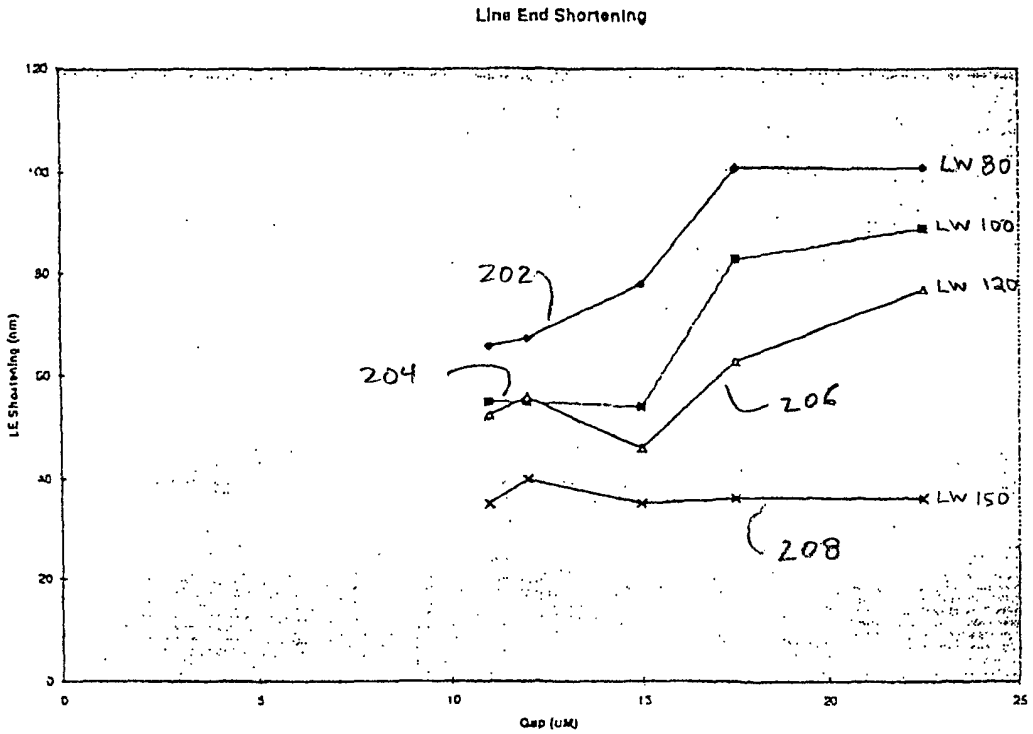
Line End Shortening
LE Shortening (nm)
Gap (UM)
0
5
10
15
20
25
0
20
40
60
80
100
120
LW 80
LW 100
LW 120
LW 150
202
204
206
208

FIG. 2

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300

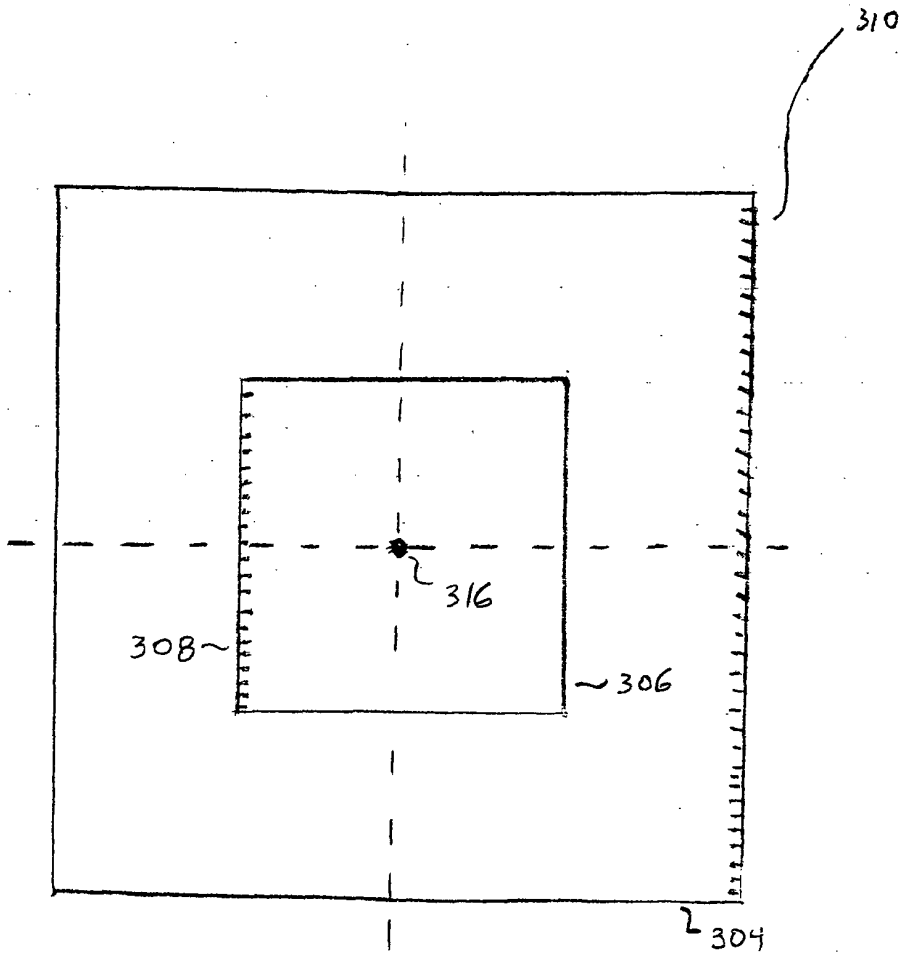

FIG. 3

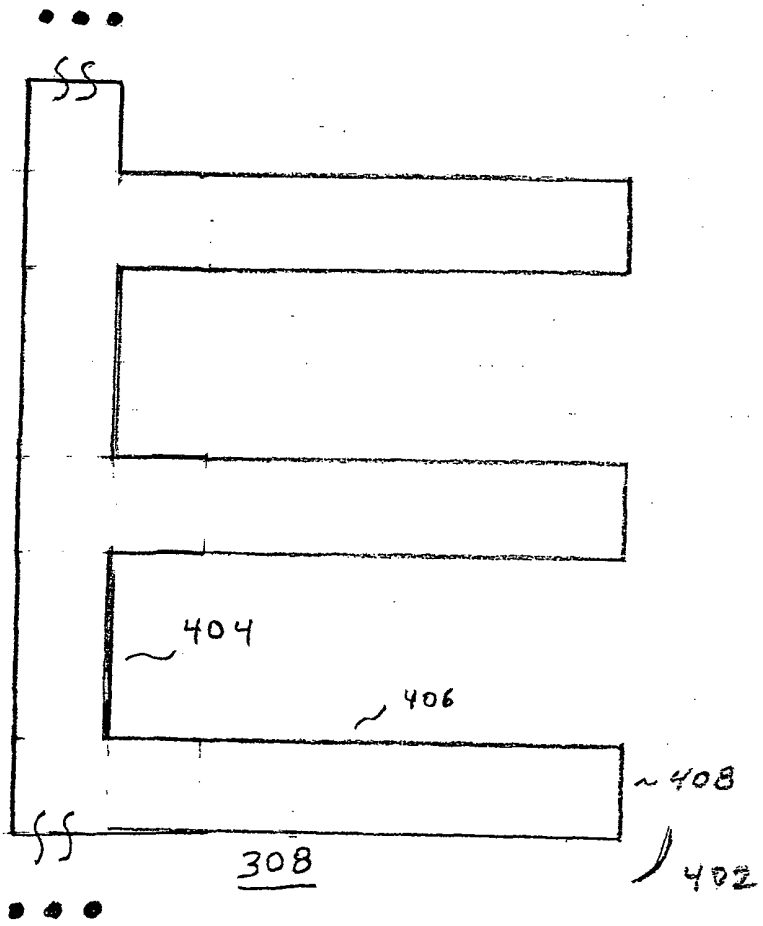

FIG. 4

300

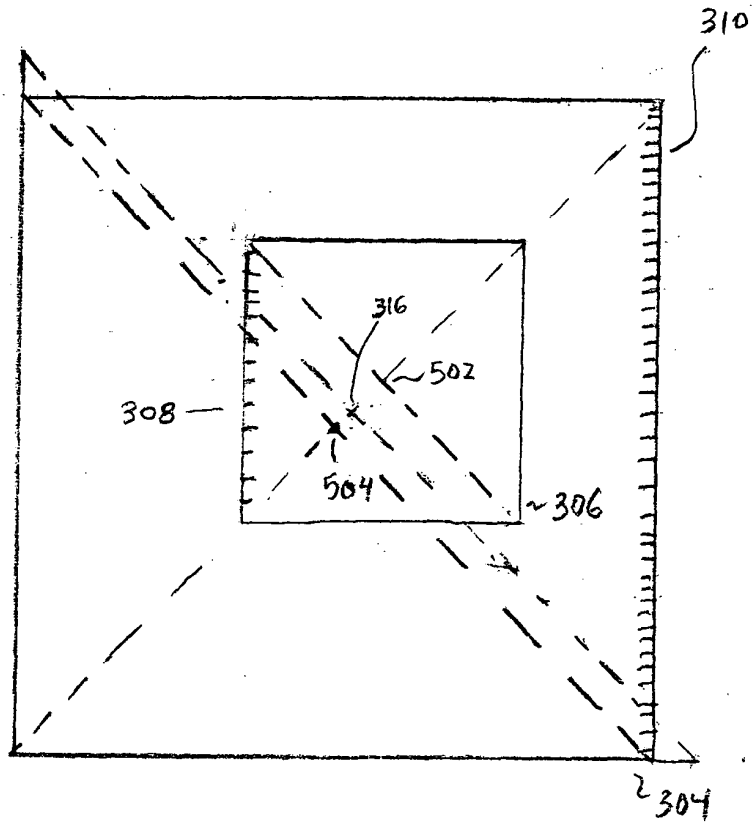

FIG. 5

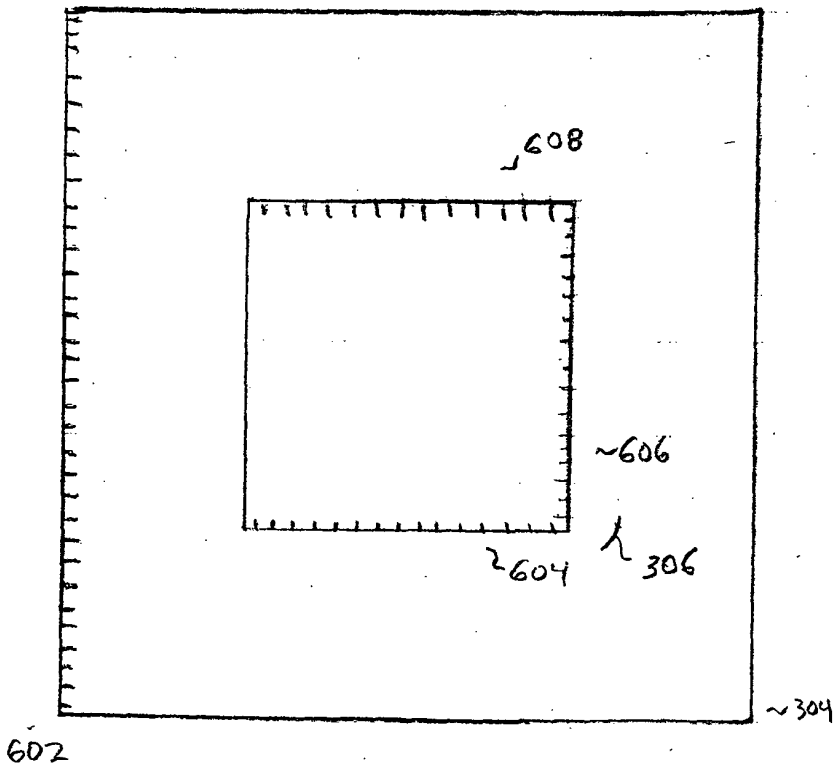

FIG. 6

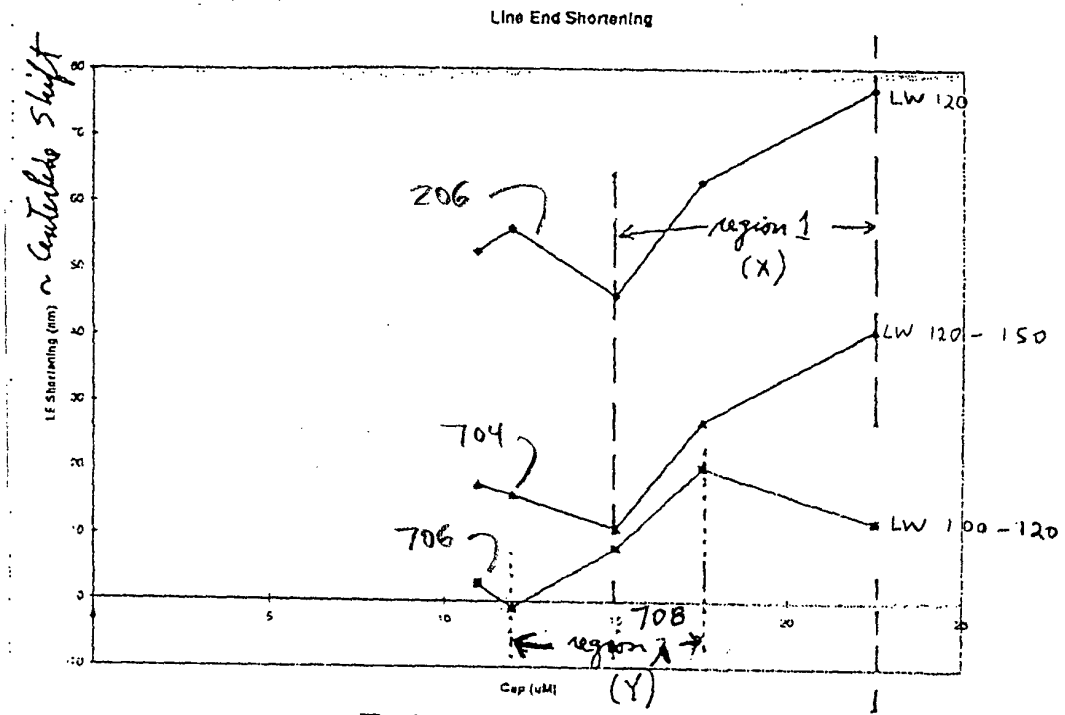
Line End Shortening
LE Shortening (nm) ~ Centerline Shift
Cap (uM)
LW 120
LW 120 - 150
LW 100 - 120
206
704
706
708
region 1
(X)
region 2
(Y)

FIG. 7